

1           18. The tumor cell composition according to claim 17, wherein said at least one  
2        additional immune modulator is a cytokine protein.

1           19. The tumor cell composition according to claim 18, wherein said cytokine protein  
2        is selected from the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin  
3        7, interleukin 12, granulocyte-macrophage colony stimulating factor, granulocyte colony  
4        stimulating factor, interferon-gamma, and tumor necrosis factor-alpha.

1           20. The tumor cell composition according to claim 18, wherein said cytokine protein  
2        is granulocyte-macrophage colony stimulating factor.

1           21. An expression vector comprising a polynucleotide sequence encoding a B7-2  
2        protein and at least one additional immune modulating protein, or a functional fragment of  
3        said B7-2 protein or said immune modulator.  
*O Ant*

1           22. The expression vector according to claim 21, wherein said at least one additional  
2        immune modulating protein is a cytokine protein.

1           23. The expression vector according to claim 22, wherein said cytokine protein is  
2        selected from the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin  
3        7, interleukin 12, granulocyte-macrophage colony stimulating factor, granulocyte colony  
4        stimulating factor, interferon-gamma, and tumor necrosis factor-alpha.

1           24. The expression vector according to claim 22, wherein said cytokine protein is  
2        granulocyte-macrophage colony stimulating factor.

1           25. The expression vector according to claim 21, wherein said expression vector is  
2       a viral vector.

1           26. The expression vector according to claim 25, wherein said viral vector is a  
2       retroviral vector.

1           27. The expression vector according to claim 25, wherein said viral vector is an  
2       adenoviral vector.

1           28. The expression vector according to claim 21, wherein said expression vector is  
2       encapsulated by, or complexed with, a liposome.

1           29. A method for the treatment or prevention of cancer comprising:  
2           a)      providing a polynucleotide encoding a B7-2 protein and at least one  
3           additional immune modulator, or a functional fragment of said B7-2 protein  
4           or said immune modulator;  
5           b)      transferring said polynucleotide into cancer cells under conditions such that  
6           said B7-2 protein and said immune modulator are expressed by at least a  
7           portion of said cancer cells; and  
8           c)      administering an effective amount of the modified cancer cells of step b) to  
9           a patient.

1           30. The method according to claim 29 further comprising irradiating said cancer cells  
2       expressing said B7-2 protein and said immune modulator prior to administering said  
3       irradiated cancer cells into said patient.

1           31. The method according to claim 30, further comprising introducing at least one  
2 additional dose of irradiated cancer cells expressing said B7-2 protein and said immune  
3 modulator into said immunized subject.

1           32. The method according to claim 29, wherein said at least one additional immune  
2 modulator is a cytokine protein.

1           33. The method according to claim 32, wherein said cytokine protein is selected from  
2 the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin 7, interleukin  
3 12, granulocyte-macrophage colony stimulating factor, granulocyte colony stimulating factor,  
4 interferon-gamma, and tumor necrosis factor-alpha.

1           34. The method according to claim 32, wherein said cytokine protein is granulocyte-  
2 macrophage colony stimulating factor.

1           35. The method according to claim 29, wherein said polynucleotide is transferred by  
2 a viral vector.

1           36. The method according to claim 35, wherein said viral vector is a retroviral  
2 vector.

1           37. The method according to claim 35, wherein said viral vector is an adenoviral  
2 vector.

1           38. The method according to claim 29, wherein said polynucleotide is encapsulated  
2 by, or complexed with, a liposome.

1           39. The method according to claim 29, wherein said cancer cells are from a solid  
2           tumor.

1           40. The method according to claim 29, wherein said cancer cells are from a brain  
2           tumor.

1           41. The method according to claim 40, wherein said brain tumor is a glioblastoma.

1           42. The method according to claim 29, wherein said cancer cells are from a  
2           melanoma.

1           43. A method for the treatment or prevention of cancer comprising administering to  
2           a subject in need thereof an effective amount of a tumor vaccine comprising a tumor cell  
3           modified to express a B7-2 protein and at least one additional immune modulator, or a  
4           functional fragment of said B7-2 protein or said immune modulator.

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1           44. The method according to claim 43, wherein said at least one additional immune  
2           modulator is a cytokine protein.

1           45. The method according to claim 44, wherein said cytokine protein is selected from  
2           the group consisting of interleukin 2, interleukin 4, interleukin 6, interleukin 7, interleukin  
3           12, granulocyte-macrophage colony stimulating factor, granulocyte colony stimulating factor,  
4           interferon-gamma, and tumor necrosis factor-alpha.

1           46. The method according to claim 43, wherein said cytokine protein is granulocyte-  
2           macrophage colony stimulating factor.

1           47. The method according to claim 43, wherein said cancer cells are from a tumor.

1           48. The method according to claim 43, wherein said cancer cells are from a brain  
2           tumor.

*Amend*     1           49. The method according to claim 48, wherein said brain tumor is a glioblastoma.

1           50. The method according to claim 43, wherein said cancer cells are from a  
2           melanoma.

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